

## ABSTRACT OF THE DISCLOSURE

This invention provides a means of calibrating a tunable filter, such as a Fabry-Perot tunable etalon, by means of a calibration signal outside the measurement range and inferring the calibration inside the measurement range by means of the equations of operation of the filter. The calibration scan is simultaneous with the measurement scan so the repeatability of the scan does not influence the calibration. In addition lower cost components, available in other wavelength regions, can be used for the calibration source.